

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE ONE

Project: FREESPORT, TX

## DAILY REPORT

Date 20 / JULY / 01 Load Numbers 1-15  
Area(s) Worked Section 2 28°55'N 95°16'W  
Weather Conditions (incl. sea conditions) PCLOUDY, SW 10-20 → LT AIRS BSS 2-5 SCATTERED RAIN IN AM HOURS  
Range of Water Temp., Surface 29-30°C Below Mid-Depth 29-30°C  
Condition and Effectiveness of Screening good (condition), effectiveness poor (varies load-to-load) due to clogging of boxes w/ clay.

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredge Eagle One began work in freesport, tx at 0315 on 20 July 01. Endangered species observers Kirsten Dahlen and Brian Fedorko are on board.

Dredged material is silt and clay with small amounts of grass and rocks. Abiotic debris includes: chain, scrap metal, shrimp nets, rope, fishing line, straps, plastic debris,

Biotic debris is minimal, including unidentified seaweed, sargassum and feathered byozoa

There were no incidents involving threatened, endangered or protected species.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>2</u>	<u>0712 / SECTION 2</u>
<u>TE</u>	<u>6-8</u>	<u>0824 / CHANNEL B/A SECTION 2 + JETTIES</u>
<u>TE</u>	<u>4</u>	<u>1215 / dumpsite</u>
<u>TE</u>	<u>8-14</u>	<u>1420-1440 / DUMP / FEEDING, RACING + ACROBATICS</u>

Observer(s) on duty Kirsten Dahlen + Brian Fedorko.

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE ONE

Project: FREEPORT ENTRANCE CHANNEL, TX

## DAILY REPORT

Date 21 / JULY / 01 Load Numbers 16-36  
 Area(s) Worked SECTIONS 2+6 STA -90<sup>W</sup> to -40<sup>W</sup> 28°55' N 98°16' W Sect 6 - Sta -190<sup>W</sup> to -140<sup>W</sup>  
 Weather Conditions (incl. sea conditions) clear => P. Cloudy BSS 2-3 Lt air  
 Range of Water Temp., Surface 29-30.5 °C Below Mid-Depth 29-30.5 °C  
 Condition and Effectiveness of Screening Good. Effectiveness reduced on 5 loads as  
inflow boxes were opened during loading.

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

DREDGED MATERIAL IS SILT & CLAY WITH SMALL AMOUNTS OF GRASS AND ROCKS. ABIOTIC  
DEBRIS INCLUDES PLASTIC STRAPPING, ROPE, SHRIMP NETS, MESH BAGS, MONO FILAMENT, TIRES, CHAIN,  
PLASTIC BAGS, CLOTH,

BY-CATCH INCLUDES: BLUE CRAB (CALLINECTES SAPIENS), FEATHERY BRACHIOA,

There were no incidents involving threatened, endangered or protected  
species.

TE 2-4 1615 / C-buoy / Feeding

### Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>TURSIDES TRUNCATUS</u>	<u>1-2</u>	<u>0654 / SECTION 2</u>
<u>TE</u>	<u>9-12</u>	<u>0740 / en route to dump</u>
<u>TE</u>	<u>6-8</u>	<u>0915 - 0930 / In channel @ dig site</u>
<u>TE</u>	<u>4-8</u>	<u>1200 - 1230 / CHANNEL, sect. 2 / FEEDING</u>
<u>TE</u>	<u>6-10</u>	<u>1330 / SECT 2 / FEEDING</u>
<u>TE</u>	<u>4-8</u>	<u>1500 / channel / Feeding</u>
Observer(s) on duty	<u>KIRSTEN DAHLEN AND</u>	<u>BRIAN FEDORKO</u>

## ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE ONE

Project: FREEPORT ENTRANCE CHANNEL TX

### WEEKLY SUMMARY

Dates 20 / JULY / 01 - 21 / JULY / 01 Load Numbers 01-36

Range of Water Temp., Surface 29-30.5 °C Below Mid-Depth 29-30.5 °C

Areas Worked (lat/longs, stations) SECTIONS 2+6 STA -90<sup>+</sup> to -40<sup>+</sup>; ~~100~~ 28°55'N 95°16'W  
-170<sup>+</sup> to -140<sup>+</sup>

Are there incidents involving endangered or protected species? YES (NO)

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

DREDGE EAGLE ONE BEGAN DIGGING AT THE FREEPORT ENTRANCE CHANNEL AT  
0215 H, 20 JULY 01. ENDANGERED SPECIES OBSERVERS KIRSTEN DAHLEN + BRIAN  
FEDORKO ON BOARD.

DREDGED MATERIAL IS SILT AND CLAY WITH SMALL AMOUNTS OF GRASS AND  
ROCK. ABIOTIC DEBRIS INCLUDES CHAIN, SHRIMP NETS, SCRAP METAL, PLASTIC STRAPPING, ROPE,  
MESH BAGS, MONOFILAMENT, TIRES, CLOTH

BIOTIC BY-CATCH INCLUDES: FEATHERY BRYOZOA, BLUE CRAB (CALLINectes RAPIDUS)  
Screening Efficiency reduced on some (5-10) loads as inflow doors opened  
during loading due to clogging with clay.

THERE WERE NO INCIDENTS INVOLVING THREATENED, ENDANGERED OR PROTECTED SPECIES.

### Bridge Watch Summary

Date	Various Species and Respective Number	Comments
<u>20 / JULY</u>	<u>TURSIOPS TRUNCATUS (20-28)</u>	<u>ALL DAY / ALL AREAS / ACTIVE</u>
<u>21 / JULY</u>	<u>TURSIOPS TRUNCATUS (42-42)</u>	<u>ALL DAY / ALL AREAS / ACTIVE</u>
<u>/</u>	<u></u>	<u></u>
<u>/</u>	<u></u>	<u></u>
<u>/</u>	<u></u>	<u></u>
<u>/</u>	<u></u>	<u></u>
<u>/</u>	<u></u>	<u></u>

Observers on duty KIRSTEN DAHLEN + BRIAN FEDORKO

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle 1

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 22 / July / 01

Load Numbers 37 - 63

Area(s) Worked Sections 2 & 6 Stations -90° to -40°, -190° to -140° 28°44'N 95°16'W

Weather Conditions (incl. sea conditions) Cloudy BSS 2 4 air SW 5-6

Range of Water Temp., Surface 29 - 30.5°C Below Mid-Depth 29 - 30.5°C

Condition and Effectiveness of Screening Fair - Boxes opened often in section 6 due to immediate clogging with clay. Port Mid inflow opened from load 37 - 49 due to mechanical problem. Screening efficiency reduced in loads

Are there incidents involving endangered or protected species? YES

(NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is clay and silt. Abiotic debris includes: shrimp nets, monofilament, rope, mesh bags, plastic, scrap metal, fish net, crab traps, cable.

By-catch includes: Featherly bryozoa

One sub-adult *Caretta caretta* (loggerhead) was seen from the bridge in section two, swimming west.

There were no incidents involving threatened, endangered or protected species.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Turkeys <i>turkey</i></u>	<u>6-8</u>	<u>0800 Sect. 6</u>
<u>It</u>	<u>20-25</u>	<u>0845-0930 Sect 2 &amp; dump</u>
<u><i>Caretta caretta</i> (loggerhead)</u>	<u>1</u>	<u>1517-Sect 2 - surfaced to breathe, headed west</u>
<u>It</u>	<u>6-8</u>	<u>1715 en route to dump, feeding</u>

Observer(s) on duty Kirsten Dahlen & Brian Fedorka

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle 1

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 23 / July / 01 Load Numbers 64 - 92

Area(s) Worked Set 2 + 6 Sta -90<sup>00</sup> to -40<sup>00</sup> and -190<sup>00</sup> to -140<sup>00</sup> 28°55' N 95°16' W

Weather Conditions (incl. sea conditions) P. Cloudy, BSS 1-2 Lt SW wind (5-6 Kt)

Range of Water Temp., Surface 28 - Below Mid-Depth 28 -

Condition and Effectiveness of Screening Screening condition is generally good. Effectiveness ranges from good to poor - please see attached.

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt with increasing amounts of clay. Abiotic debris includes: shrimp nets, fish nets, monofilament, mesh bags, milk crates, crab traps, plastic, scrap metal, cloth, 5 gallon bucket, rope, wood, plastic juice containers, reel cable, rug

By-catch includes: Bryozoa, Spot (*Leiostomus xanthurus*), ~~Kribia~~ <sup>Lightning</sup> whelk egg cases (*Busycon contrarium*), unidentified eels, Sargassum, Lightning whelks (*B. contrarium*)

One juvenile or sub-adult *Caretta caretta* (loggerhead) was seen surfacing to breathe in the dump area.

There were no incidents involving threatened or endangered species.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>3-5</u>	<u>0815 / en route to dump</u>
<u>TE</u>	<u>10-15</u>	<u>1400-1420 / Section 2 / Feeding</u>
<u>TE</u>	<u>12-16</u>	<u>1530-1540 / channel / bow-riding</u>
<u>CC</u>	<u>1</u>	<u>1940 - surfaced in dump - juv. or sub adult</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle 1

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 23 / July / 01 Load Numbers continued

Area(s) Worked \_\_\_\_\_

Weather Conditions (incl. sea conditions) \_\_\_\_\_

Range of Water Temp., Surface \_\_\_\_\_ Below Mid-Depth \_\_\_\_\_

Condition and Effectiveness of Screening \_\_\_\_\_

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Screening effectiveness is reduced on many loads due to heavy clogging with clay and problems with hydraulics and rams on inflow box doors. The doors on the mid-port inflow box slipped open 6-12' during loading until additional repairs were completed during load #77. Starboard inflow door also slips open occasionally during loading, and is closed at observer request.

Section 6 material is mainly clay, which leads to clogging of inflow boxes within minutes of load starting times. Doors are opened, cleared, reclosed and routinely re-clog within several minutes. Screening effectiveness on some loads in Section 6 is essentially zero.

Observers contacted Chris Slay (Coastwise Consulting) and Rob Hauch (ACOE) to keep them informed of problems with clogging and reduced screening effectiveness at the Freeport site.

### Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) on duty Kirsten Dahler and Brian Feltz

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle 1

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 24 / July / 01 Load Numbers 93 - 121

Area(s) Worked Sect. 2+6 Sta -90<sup>m</sup> to -40<sup>m</sup> + -190<sup>m</sup> to -140<sup>m</sup> 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) cloudy, am rain, lt SW wind, BSS 1-2

Range of Water Temp., Surface 29-30.5°C Below Mid-Depth 29-30.5°C

Condition and Effectiveness of Screening Condition is generally good; effectiveness ranges from good to poor; especially poor to non-existent in sect. 6 where material is heavy clay. Mid-STBD inflow door slips open 6-12' on some loads.

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt with increasing amounts of clay. Abiotic debris includes: shrimp + fish nets, mesh bags, rope, plastic bags, floor mats, wire, cloth, milk crate, monofilament line, wood, rubber strap, cable,

By-catch includes: feathery bryozoa, sargassum, lightering whelk egg cases (Buccinum contrarium)

There were no incidents involving threatened, endangered or protected species.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>7-10</u>	<u>1130 - dumpsite</u>

Observer(s) on duty Kirsten Dahlen + Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle 1

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 25 July / 01 Load Numbers 122 - 149

Area(s) Worked Sections 2, 3 + 6 Sta -90° to 0° and -190° to -140° 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) Mostly cloudy, am rain, lt wind BSS 1-2

Range of Water Temp., Surface 29-30°C Below Mid-Depth 29-30°C

Condition and Effectiveness of Screening Condition is good; effectiveness varies from good to poor due to blockage with clay on some loads.

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt and clay. Abiotic debris includes mesh bags, shrimp net, gloves, wood, aluminum cans, rope, PVC pipe, crab traps, fish nets, monofilament, cloth, pillow, screen.

By-catch includes sargassum, ~~littered debris (plastic, wood)~~, leather bryzoa

There were no incidents involving threatened, protected or endangered species.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>4-8</u>	<u>1230 Betties / Feeding</u>

Observer(s) on duty Kirsten Dahlen + Brian Fedorko



# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle 1

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 26 / JULY / 01 Load Numbers 150-176  
 Area(s) Worked Sec 2, 3 + 6 Sta 10 to 70<sup>m</sup>, -40<sup>m</sup> to -90<sup>m</sup>, -140<sup>m</sup> to -190<sup>m</sup> 28°55'N 90°16'W  
 Weather Conditions (incl. sea conditions) rain in am, P.M. cloudy Wind SE 5-10 BS 1-3  
 Range of Water Temp., Surface 29.5-29°C Below Mid-Depth 29.5-29°C  
 Condition and Effectiveness of Screening Condition is generally good. Screening effectiveness  
varies from good to poor, due to heavy clay in sections 2 + 6.

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt and clay. Abiotic debris includes fish + shrimp nets,  
mesh bags, rope, plastic bags, monofilament, glass bottles, aluminum cans, sail, cable,  
plastic bottles, PVC pipe, elastic straps, bungee cords, crab traps

By-catch includes: feathery bryozoa, sargassum, lightning whelk egg  
cases (Buccan carinarum),

There were no incidents involving protected, threatened or endangered  
species.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>1-2</u>	<u>0903 / bay 4</u>
<u>It</u>	<u>5-7</u>	<u>0930 / en route to dump</u>

Observer(s) on duty Hester Dahlen and Brian Fedarko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle 1

Project: Freeport Entrance Channel

## DAILY REPORT

Date 27 July / 01 Load Numbers 177 - 199

Area(s) Worked Sta. 2, 3 + 6 Sta. 0<sup>top</sup> to -40<sup>top</sup>; -40<sup>top</sup> to -90<sup>top</sup>; -140<sup>top</sup> to -190<sup>top</sup> 28° 44'N 95° 16'W

Weather Conditions (incl. sea conditions) rain in am, overcast → M. cloudy winds NS-15 BSS 2-3

Range of Water Temp., Surface 29°C Below Mid-Depth 29°C

Condition and Effectiveness of Screening Condition of screening is generally good. Screening effectiveness varies from good to poor, due to clogging with clay on many loads. Observers not always notified when inflow boxes are opened during loading.

Are there incidents involving endangered or protected species? YES (NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt and clay with some sand and crushed shell. Abiotic debris includes: shrimp and fish nets, monofilament, mesh bags, wood, rope, metal pipe, electrical wire, plastic bags, rubber floor mat, scrap metal, plastic fencing, crab trap, hat

By-catch includes: Bathery bryozoa, Lightering whelk egg cases (Busycon contrarium)

There were no incidents involving protected, threatened or endangered species.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>6-8</u>	<u>0815 / Sect. 6</u>
<u>Tt</u>	<u>5-6</u>	<u>0928 / end of jetties</u>
<u>Tt</u>	<u>4-6</u>	<u>1350 / end of jetties / Reding</u>

Observer(s) on duty Kirsten Dahler + Brian Fedarko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEPORT ENTRANCE CHANNEL

## DAILY REPORT

Date 28 / July / 01 Load Numbers 200-224

Area(s) Worked Sec 2,3+6 Sta 0<sup>th</sup> - 40<sup>th</sup>, -40<sup>th</sup> - 90<sup>th</sup>, -140<sup>th</sup> - 190<sup>th</sup> 28° 55'N 98° 16'W

Weather Conditions (incl. sea conditions) P. cloudy S 10-15 BSS 2-3

Range of Water Temp., Surface 28.5 - 30°C Below Mid-Depth 28.5 - 30°C

Condition and Effectiveness of Screening Condition of screening is generally good. Screening effectiveness varies from good to poor due to heavy clay loading in some loads.

Are there incidents involving endangered or protected species? YES (NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt, sand, crushed shell and clay. Abiotic debris includes: golf ball, fish and shrimp nets, monofilament, screens and hooks, mesh bag, wood, lead weights, cloth, rope, scrap metal, engine parts

By-catch includes: flatfish bryozoa, lightning whelks (Busycan contrarium), Atlantic hairy Triton (Cymatium pilare)

There were no incidents involving protected, threatened or endangered species.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Turrops truncatus</i></u>	<u>5-6</u>	<u>0930 / Jetties</u>
<u><i>T. truncatus</i></u>	<u>4-8</u>	<u>1320 / feeding at jetties</u>
<u><i>T. truncatus</i></u>	<u>5-10</u>	<u>1830 / feeding @ jetties</u>

Observer(s) on duty Kristen Danks and Brian Fedarko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle 1

Project: Freeport Entrance Channel, TX

## WEEKLY SUMMARY

Dates 22 / July / 01 - 28 / July / 01 Load Numbers 37 - 224  
 Range of Water Temp., Surface 28° - 31°F Below Mid-Depth 28° - 31°F  
 Areas Worked (lat/longs, stations) Rect. 2, 3 + 6 Sta. 0<sup>00</sup> to 40<sup>00</sup>, 40<sup>00</sup> to 90<sup>00</sup>, 140<sup>00</sup> to 190<sup>00</sup> 28°55'N 95°16'W

Are there incidents involving endangered or protected species? YES ☒ NO ☐

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

Dredged material is silt, clay, sand and shell. Abiotic debris includes: shrimp nets, fish nets, line, monofilament, mesh bags, scrap metal, milk crates, crab traps, plastic, cloth, 5 gallon buckets, rope, wood, plastic juice containers, steel cable, rug, sail, screen, rubber floor mats, aluminum cans, fishing line, hooks and weights, plastic fencing, electrical wire, wire, hat, engine parts

By-catch includes: feathery bryozoa, spot (Leiostomus xanthurus), unidentified eels, lightning whelks + egg cases (Busy con contrarium), Atlantic Hairy Triton (Cymatium pileare)

Two Caretta caretta (loggerhead sea turtles) were sighted from the bridge, one in the channel, and one in the dump area.

Problems with clogging continue in sections 2 + 6 where there are large amounts of clay. Boxes are often opened + cleared during loading, reducing screening effectiveness. Chris Slay (Coastwise Consulting) and Rob Hauch (CACOE) were both informed of problems with screening loss.

There were no incidents involving threatened, protected or endangered species.

## Bridge Watch Summary

Date	Various Species and Respective Number	Comments
22 / July	<u>Tursiops truncatus</u> (32-41) <u>Caretta caretta</u> (1)	TE all day - Ce - Section 2
23 / July	<u>T. truncatus</u> (25-36) <u>Caretta caretta</u> (1)	TE all day Ce - dump
24 / July	<u>T. truncatus</u> (7-10)	TE 1130 - dump
25 / July	<u>T. truncatus</u> (4-8)	TE 1230 - feeding at jetties
26 / July	<u>T. truncatus</u> (6-9)	TE am - jetties
27 / July	<u>T. truncatus</u> (15-20)	TE all day - jetties
28 / July	<u>T. truncatus</u> (14-24)	all day - feeding @ end of jetties

Observers on duty Kirsten Dahlen and Brian Fedorka

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEDPORT, TX

## DAILY REPORT

Date 29 July 2001

Load Numbers 225 - 248

Area(s) Worked Stations -19000 to -14000 (Sec. 6), and -4600 to 000 (Sec. 2 & 3)

Weather Conditions (incl. sea conditions) Good Sea State 2-3; Winds S 5-12; Clear → Partly Cloudy all

Range of Water Temp., Surface 29-30°C Below Mid-Depth 29-30°C

Condition and Effectiveness of Screening Screening of silted inflow (mid) is essentially non-existent since the door won't stay closed during loading due to faulty hydraulics. Condition of other inflow boxes is generally ok.

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- \* Screening effectiveness varies from fair to extremely poor.
- \* Material continues to be a mix of silt and mud with varying amounts of sand (higher in section 3) and clay (higher in section 6).
- \* Abiotic debris included (2) Plastic Milk Crates, (1) Beer Can, (1) Juice Can, (1) Toy Truck, several mesh bags, plastic, rope, wire rope, monofilament line, wood, cloth, carpet, (1) golf ball, (1) car bumper, and (8-10) pieces of shrimp net of varying size.
- \* Biological by-catch included sargassum, bryozoa, whole and crushed shell, (1) Fish vertebrae, (1) Gafftopsail Catfish (Bagre marinus), (1) Sergeant Major (Alutidul saxatilis), (1) Eel (sp. unidentified), and (1) Gulf Menhaden (Brevoortia patronus).

### Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u> ( <u>Bottlenose Dolphin</u> )	<u>11-15</u>	<u>0830 (First Sighting) - Sec. 3 - Feeding in channel</u> <u>- seen throughout morning.</u>

Observer(s) on duty KIRSTEN DAHLEN / BRIAN FEDORKO

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEPORT, TX

## DAILY REPORT

Date 30 July 2001 Load Numbers 249-271

Area(s) Worked Sections 1, 3, 6 and 2 (N end only: ca. station -46+00 to -40+00)  
Weather Conditions (incl. sea conditions) Sea State 2-5; Waves to 10-15 ft. H, wind 10-15 mph

Range of Water Temp., Surface 29-30°C Below Mid-Depth 29-30°C

Condition and Effectiveness of Screening Effectiveness continues to vary from load to load depending on the clay content of dredged material. Std. mid water box continues to consistently be ineffective due to hydraulic failure.

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

\* Dredged material continues to consist of silt, mud, clay, sand and small amounts of crushed shell.

\* Biological by-catch today included sargassum, (1) Giant Atlantic Cockle (*Dorscardium robustum*), and (1) unidentified Eel.

\* Human generated waste included mesh bags, plastic bags, (1) Rubber Tire, (-14) shrimp net remnants, (1) aluminum can, rope (various lengths), pvc pipe, carpet remnants, chain, and weeds of monofilament line.

\* No turtles were sighted today.

### Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>10-15</u>	<u>Throughout amp in channel, beginning 0710 hrs</u>
<u><i>T. truncatus</i></u>	<u>2</u>	<u>1400 - Playing near bow of dredge.</u>
<u><i>T. truncatus</i></u>	<u>6-10</u>	<u>1450 - 300 yds E of jetties; feeding</u>

Observer(s) on duty KIRSTEN DANLEN / BRIAN FEDORKO

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEPORT, TX

## DAILY REPORT

Date 31 July 2001 Load Numbers 272-295

Area(s) Worked Sections 1, 2, and 3

Weather Conditions (incl. sea conditions) Sea State: 2-3 All Day; Clear to Pcloudy Skies; Winds 5-10 S

Range of Water Temp., Surface 29°-31°C Below Mid-Depth 29°-31°C

Condition and Effectiveness of Screening No change since 30 July 2001. Inflow boxes regularly clog w/ clay and are opened mid-load w/o being checked to allow small incident containers to be logged on observed load sho

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

\* Stbd mid inflow box continues to slip open during loading, thereby being poor for screening by-catch.

\* Material dredged continues to be a mixture of varying amounts of clay, sand, mud, and shell debris.

\* Biological debris today included only sargassum.

\* Trash today (mostly in dragheads) included: (~18) shrimp net remnants, plastic swim goggles, ~12 ft of 1 in. wire rope, (8) mesh produce bags, metal waste, wood, electrical wire, plastic kiddie pool, (1) rubber floor mat, bits of rope, fishing line, cloth, & plastic strap

### Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>10-12</u>	<u>a.m. - IN Channel all morning. First sighted @ 0635.</u>
<u><i>T. truncatus</i></u>	<u>6-12</u>	<u>p.m. - Near jetties; feeding; First sighted @ 1400 NR</u>

Observer(s) on duty KIRSTEN DAHLEN / BRIAN FEDURKO

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEPORT, TX

## DAILY REPORT

Date 01 Aug 2001 Load Numbers 296-318

Area(s) Worked Sections 2 & 3; Stations - 90+00 to 0+00

Weather Conditions (incl. sea conditions) Sea State 2; a.m. Clear, winds S 5kts; p.m. Rbuddy Wind 55kts

Range of Water Temp., Surface 29-30.5°C Below Mid-Depth 29-30.5°C

Condition and Effectiveness of Screening Condition unchanged since 31 July 2001.

Clogging continues to limit the ability to screen effectively due to the need to open inflow doors mid-load w/o checking for samples.

Are there incidents involving endangered or protected species? YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

\* Dredged material varies depending upon bottom depth and section - various mixes of clay, mud, and sand.

\* By-catch today included sargassum and (2) Fish: (1) Atlantic cutlassfish (*Trichiurus lepturus*) and (1) Spot (*Leiostomus xanthurus*). Also observed in the clay were bivalves identified as Southern Quahogs (*Mercuria campechiensis*) - numbering about 15-25 live & 1/2 shell.

\* Abiotic debris consisted of: (1) Hop Bucket (plastic), (1) boat sail, electrical wire, (8) shrimp net remnants, (1) whole shrimp net, (10) mesh produce bags, (2) metal crab traps, rope, and fishing line.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Trisops truncatus</i></u>	<u>2</u>	<u>0639 - Buoy 3 in channel.</u>
<u><i>T. truncatus</i></u>	<u>8-10</u>	<u>1047 - Near jetty, outside channel</u>
<u><i>T. truncatus</i></u>	<u>10-15</u>	<u>1330 - 1700 - Feeding near buoy 5.</u>

Observer(s) on duty KIRSTEN DAHLEN / BRIAN FERRERO



# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEPORT, TX

## DAILY REPORT

Date 021 AUG 2001 Load Numbers 319-342

Area(s) Worked Sections 1, 2, 3 & 6 Winds variable = 5-2 kts

Weather Conditions (incl. sea conditions) Sea State: 2 building to 4; Partly to Mostly Cloudy; Rain in a.m.

Range of Water Temp., Surface 29.5-30°C Below Mid-Depth 29.5-30°C

Condition and Effectiveness of Screening Condition of screening unchanged since 01 Aug 2001. Screening effectiveness continues to be compromised by clogging problem faulty hydraulic doors, and the 1 ft x 3 ft (approx.) hole in the bottom of the port mid box.

Are there incidents involving endangered or protected species? YES ☐ NO ☒

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- \* One sub-adult Loggerhead Sea Turtle was seen this afternoon from the bridge - See Bridge Watch Summary below.
- \* Dredged material continues to be a mix of mud, sand, and clay.
- \* Biological debris today included feathery bryozoa and sargassum.
- \* Abiotic debris included (13) shrimp NET remnants, (9) mesh produce bags, (1) 25 ft length of wire rope, (1) 30 ft (approx.) length of electrical wire, many wads of monofilament line, (2) rubber floor mats, and various lengths of rope.

### Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>6-10</u>	<u>1<sup>st</sup> Sighting ca. 0855. In channel throughout the day. Feeding.</u>
<u><i>Caretta caretta</i></u>	<u>1</u>	<u>1506 HRS. Near Buoy 6. Surfaced for approx. 15-20 sec. 50 yds shoreward of buoy. Swimming southward.</u>

Observer(s) on duty KIRSTEN DAHLEN / BRIAN FEDORKO

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEPORT, TX

## DAILY REPORT

Date 03 / AUG / 2001 Load Numbers 343 - 366

Area(s) Worked Sections 2 & 3 mostly. Also sec. 1 (Load 344) & sec. 4 (Load 343)

Weather Conditions (incl. sea conditions) variable - a.m. Sea State 3-4, cloudy; winds to 15 kts / p.m. clearing Sea State.

Range of Water Temp., Surface 29°-30°C Below Mid-Depth 29°-30°C

Condition and Effectiveness of Screening Condition slightly worse as Port Mid inflow box door now slips open 6-12" during loading, similar to the ongoing problem w/ the Stbd. mid inflow box noted in previous daily reports.

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

\* Specific clogging problems continue to be noted on individual load sheets. Screening effectiveness continues to vary from fair to poor depending upon make-up of dredged material and the physical condition of each inflow box. Material dredged continues to vary.

\* By-catch included sargassum and (1) Giant Atlantic Cockle.

\* Trash today included the usual shrimp net remnants, metal crab traps, monofilament line, scrap metal, mesh produce bags, wood debris, cloth/fabric, (1) beach sandal, (1) plastic milk jug, PVC pipe, electrical wire, raingear, (1) plastic doll, and (1) ♀

## Bridge Watch Summary

(~1' x 2' x 1') ←

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>10-15</u>	<u>0642: 1<sup>st</sup> sighting @ 1<sup>st</sup> light - In channel all a.m.</u>
<u>Birds:</u>		
<u>Frigate Birds</u>	<u>12</u>	<u>All day - over channel.</u>
<u>Rosate Terns</u>	<u>2</u>	<u>Load 359 - ca. 1530 hrs.</u>

Observer(s) on duty KIRSTEN DAHLEN / BRIAN FEDORKO

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEPORT, TX

## DAILY REPORT

Date 04 AUG 2001 Load Numbers 367-391

Area(s) Worked Sections 1, 2, 3, 4 (partial), 6

Weather Conditions (incl. sea conditions) Sea State - 2 (a.m.); 1 (p.m.) Winds 1-5 N&E. Hazy

Range of Water Temp., Surface 29°-30.5°C Below Mid-Depth 29°-30.5°C

Condition and Effectiveness of Screening Condition and effectiveness unchanged since 03 AUG 2001. Unable to check for turtle take in draghead's loads 376 and 385 as dragarms were not brought on deck between loads.

Are there incidents involving endangered or protected species? YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

\* Material dredged continues to vary between loads. Material consists of various amounts of clay, silt, mud, and sand.

\* Biological debris today consisted of sargassum, feathery bryozoa, Southern Quahogs (*Mercenaria campechiensis*), and (1) Gulf Menhaden (*Brevoortia patronus*)

\* Abiotic debris included (21) Shrimp net remnants, (4) mesh produce bags, (1) plastic basket, (1) battery, (1) hardhat, (2) carpet remnants, (1) PVC pipe, (4) wire rope - 10 ft, 5 ft, 10 ft and 1 unknown length, various lengths of rope (up to 20 ft), wads of monofilament line, wood debris, (1) plastic salt bag, (1) plastic gatorade bottle, metal waste, (1) plastic toy.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<i>Tursiops truncatus</i>	3-4	1040 HRS - Sec. 3 - in channel
<i>T. truncatus</i>	15-25	1200 HRS - Feeding in channel. <sup>Throughout afternoon.</sup> Some bow-riding Casino boat.
Birds: <i>T. truncatus</i>	10-20	1930 HRS - Bow-riding "Surfside Princess" Casino boat
<i>Frigata magnificens</i>	1 ♀	1350 HRS - Frigate Bird

Observer(s) on duty KIRSTEN DAHLEN / BRIAN FEDORKO

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEMPORT ENTRANCE CHANNEL, TX

## WEEKLY SUMMARY (Page 1 of 3 This week)

Dates 29 July 2001 - 04 Aug 2001 Load Numbers 225 - 391

Range of Water Temp., Surface 29°-31°C Below Mid-Depth 29°-31°C

Areas Worked (lat/longs, stations) Sections 1, 2, 3, 4 (to about station +2+00), and 6

Are there incidents involving endangered or protected species? YES NO

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

\* (1) Loggerhead Sea Turtle was sighted from the bridge on 2 Aug. No interaction w/ dredge operation was observed - see Bridge Watch Summary.

\* Material varies depending upon section dredged. In general, sections 1 and 6 have high amounts of clay as do the deeper portions of sections 2 and 3. Less clay and higher sand and mud content is generally seen in most of sections 2 and 3.

\* Problems w/ screening condition include the approximately 1 ft x 3 ft hole in the bottom of the Port Mid inflow box. This hole has compromised screening effectiveness for loads 1 - 391 thus far. Anticipated date of repair is unknown. Observer KIRSTEN DAHLEN reminded Project Mgr. Pedro Gonzalez of this situation on 02 Aug. # NOTE - CAPTAIN BABB WAS NOTIFIED OF THIS CONDITION 6 AUG. 01 - WHEN THIS REPORT CAME TO HIM. AB

### Bridge Watch Summary

Date	Various Species and Respective Number	Comments
29 July	<u>Tursiops truncatus</u> : #11-15	Bottlenose Dolphin are generally seen each day in and around the channel. Behaviors observed include feeding and bow-riding various vessels @ bow waves. Individuals include both adults and juveniles.
30 July	<u>T. truncatus</u> : #18-27	
31 July	<u>T.t.</u> : #16-24	
01 Aug	<u>T.t.</u> : #20-25	
02 Aug	<u>T.t.</u> : #6-10 ; <u>Caretta caretta</u> : #1	
03 Aug	<u>T.t.</u> : #10-15	
04 Aug	<u>T.t.</u> : #28-49	

Observers on duty KIRSTEN DAHLEN / BRIAN FEDORKO

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEPORT ENTRANCE CHANNEL, TX

## WEEKLY SUMMARY (Page 2 of 3 This week)

Dates 29 July 2001 - 04 Aug 2001 Load Numbers 225 - 391

Range of Water Temp., Surface - Below Mid-Depth -

Areas Worked (lat/longs, stations) See Page 1 of 3

Are there incidents involving endangered or protected species? YES

NO

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

\* Problems w/ screening condition also include the failure of the hydraulic rams on the Port Mid and Stbd Mid inflow boxes to effectively and consistently keep the boxes closed during loading. This condition problem on the Port Mid box developed this week, while the Stbd Mid box has been a problem since last week. Capt. Babb states that new rams are currently on order.

\* High clay content continues to affect screening effectiveness as inflow boxes need to be opened mid-load to flush out clay and thus any biological samples that may be in the boxes. Little or no screening occurred during 62 of 167 loads this week due to inflow boxes clogging w/ clay. (Not including the lack of screening due to the Stbd. Mid box being open 12-24 inches every load due to problem described above.)

### Bridge Watch Summary

Date	Various Species and Respective Number	Comments
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Observers on duty KIRSTEN DAHLEN / BRIAN FEDORKO

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEPORT ENTRANCE CHANNEL, TX

## WEEKLY SUMMARY (Page 3 of 3 THIS WEEK)

Dates 29 JULY 2001 - 04 AUG 2001 Load Numbers 225 - 391

Range of Water Temp., Surface - Below Mid-Depth -

Areas Worked (lat/longs, stations) See Page 1 of 3

Are there incidents involving endangered or protected species? YES NO

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

\* Biological "catch" consisted of: Sargassum; Feathery Bryozoa; Southern Quahogs (1/2 shells and live animals); (2) Gulf Menhaden (*Brevoortia patronus*); (1) Gafftopsail Catfish (*Bagre marinus*); (1) Sergeant Major (*Abudefduf saxatilis*); (1) Atlantic Cutlassfish (*Trichurus lepturus*); (1) Spot (*Leiostomus xanthurus*); (2) Eels (unident.); (2) Giant Atlantic Cackle (*Dinocardium robustum*). The eels are generally seen in the hopper; other fish are generally recovered from the dragheads and spill deck. Also (1) fish vertebrae.

\* Abiotic debris totals for the week include: 95 (approx.) shrimp net remnants; (~42) mesh produce/onion bags; (~7) lengths of wire rope; countless wads of fishing line, plastic bags, aluminum cans, wood debris, metal debris, plastic salt bags, pvc pipe, carpet, rocks, electrical wire, metal crab traps, fabric, countless pieces of rope, and other misc. trash (see each daily report for specifics.)

### Bridge Watch Summary

Date	Various Species and Respective Number	Comments
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Observers on duty KIRSTEN DANLEN / BRIAN FEDORKO

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 06 / AUG / 2001 Load Numbers 392 - 414

Area(s) Worked Sec. 1, 2, 3, 6 Sta. -46<sup>th</sup> to +2<sup>th</sup>; -140<sup>th</sup> to -90<sup>th</sup>; -190<sup>th</sup> to -140<sup>th</sup> 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) P. Cloudy / hazy, am rain; winds lt + variable; BSS 1-

Range of Water Temp., Surface 28.5 - 30.5°C Below Mid-Depth 28.5 - 30.5°C

Condition and Effectiveness of Screening Effectiveness ranges from fair to virtually non-existent.

Approx. 1' x 3' hole remains in port mid box. Hydraulic problems cause port (6") + STB (6-24")

mid box inflow doors to open during loading. Boxes often opened during loading without notifying observer on bridge + watch, leading to unknown degree of screening loss, in addition to the above mentioned sources of screening loss.

Are there incidents involving endangered or protected species? YES

(NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is mainly silt + clay with some sand + crushed shell. Amount of clay increases as depth increases in sections 2 + 3; sections 1 + 6 are mainly clay. Boxes opened in all sections due to problems with clay, and other concerns, further reducing screening for biological samples. (Boxes opened when "clogged").

By-catch includes: bryozoa, sargassum, whelk egg cases (Busycon contrarium),

Gulf Menhaden (Brevoortia patronus)

Dragheads not checked on load 407, as dragarms not brought on board.

Debris includes: wood pieces (2), bits of rope + line to 25' (6), PVC pipe (3), Ziploc bags, whole shrimp nets (2), pieces of shrimp net (12), scrap metal, metal engine parts, metal pipe, aluminum cans, golf balls, plastic garment bag, rocks (3), swim flippers (1), mesh bags (15), lead fish weights (3), baseball cap (1), wads of monofilament (18), tire (1), fish net pieces (1).

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>2-3</u>	<u>0645 - buoy 5</u>
<u>T. truncatus</u>	<u>10-20</u>	<u>1300 - all afternoon - feeding in channel + bowriding.</u>

Observer(s) on duty Kirsten Dahlen + Brian Fedarka

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle 1

Project: Fresport Entrance Channel, TX

## DAILY REPORT

Date 06 / AUG / 2001 Load Numbers 415-440

Area(s) Worked Sect. 1, 3, 6, 2 Sta -46<sup>00</sup> to 0<sup>00</sup>; -190<sup>00</sup> to -90<sup>00</sup> 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) squalls in early am, winds to 40; P. cloudy, lt. air, BSS 1

Range of Water Temp., Surface 30-31°C Below Mid-Depth 30-31°C

Condition and Effectiveness of Screening Port and starboard mid inflow boxes continue to open during loading due to hydraulic problems, which are to be repaired. Hole (1x3') in port mid inflow will be fixed soon. Effectiveness continues to vary from load to load depending on material being dug, generally fair due to clay.

Are there incidents involving endangered or protected species?

YES

(NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is clay and silt, with some sand + crushed shell. Material is mostly clay in Sections 1+6, leading to clogging and opening of boxes at times. Captain Bobb reports that repairs will be made to the hole in the port mid inflow screening and to the hydraulics on both mid doors. Dragheads not brought above the waterline on load 439

Biological by-catch includes: sargassum, feathery bryozoa, colonial hydroids (un id.), lightning whelk egg cases (Busycon contrarium), sea whip (Leptogorgia virgulata), unidentified eels, disc clams (Dosinia discus),

Debris includes: (4) shrimp net pieces, (3) pieces of rope, sail fragment, skirt, 20' steel bar, anchor chain and shaft, (12) mesh bags, (17) wads of monofilament, 40' of 2" (dia.) rope, random plastic, electrical cable, metal scrap, plastic bags, 5 gallon bucket, toy Tonka Truck, plastic bottles, garbage bags, 20' rubber hose, wood

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>6-10 3-4</u>	<u>0634 - channel in section 6 - Porpoising</u>
<u>T. truncatus</u>	<u>6-10</u>	<u>in channel - 0720 - in channel all am.</u>
<u>T. truncatus</u>	<u>9-12</u>	<u>1040 - between dump and Sect. 1</u>
<u>T. truncatus</u>	<u>10-15</u>	<u>1300 - feeding @ end of jetties - all afternoon</u>
<u>T. truncatus</u>	<u>4-6</u>	<u>1500 - Section 1</u>

Observer(s) on duty Kirsten Dahlen + Brian Fedorko



# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 07 / AUG / 2001 Load Numbers 441 - 472

Area(s) Worked Secr. 1, 2, 3, 4, 6 STA. -190<sup>to</sup> -85<sup>to</sup> -40<sup>to</sup> 0<sup>to</sup> 0<sup>to</sup> +60<sup>to</sup> 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) P. Cloudy, pm light rain; winds lt ⇒ S 5-10; BSS 1-3

Range of Water Temp., Surface 30-31°C Below Mid-Depth 30-31°C

Condition and Effectiveness of Screening Effectiveness continues to vary depending on material being dredged, generally fair. Port + Str Mid doors continue to slip open due to hydraulic problems. Repairs completed on port mid screening, and repairs will be made to mid inflow hydraulics when parts arrive.

Are there incidents involving endangered or protected species?

YES

(NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

A juvenile *Chelonia mydas mydas* (green sea turtle) was observed from the dredge between the dump site and section 1. An adult-sized *Lepidochelys Kempii* (Kemp's Ridley) was observed by mate + observer near buoy 5, outside the Freeport jetties. The dredge had no apparent interaction with either turtle. Please see bridge watch summary.

Dredged material is silt and clay, with some sand + crushed shell in section 3. Boxes continue to occasionally clog with clay, and are opened after notifying observer.

Biological by-catch includes: *Sargassum*, *bryozoa*, Gulf Menhaden (*Brevoortia patronus*), Disc clam (*Dosinia discus*).

Debris includes: metal tank, 5 gallon bucket, engine, random plastic, (1) mesh bags, (2) shrimp net pieces, (8) bits of rope, (3) wads of monofilament, (2) lengths of wire rope, coaxial cable, salt bags, cloth, scrap metal, fish hooks, lead weights, rocks, wood, duct tape

Dragheads not brought on board after loads 469, 454, 449

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>5-10</u>	<u>1310 / Sections 1 + 6 / Feeding</u>
<u><i>Chelonia mydas mydas</i></u>	<u>1 juvenile</u>	<u>1350 / en route to dig area #1 / surfaced headed west</u>
<u><i>T. truncatus</i></u>	<u>10-15</u>	<u>1645 / entrance to jetties / feeding</u>
<u><i>Lepidochelys Kempii</i></u>	<u>1, adult-sized</u>	<u>1730 / buoy 5 facing WSW, but not really moving. "swayed" right front flipper a few times.</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 08 / AUG / 2001 Load Numbers 472 - 503

Area(s) Worked Sect. 1, 3 Sta. -140<sup>to</sup> - 90<sup>to</sup>, -40<sup>to</sup> 0<sup>to</sup> 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) M. Clear → P. Cloudy, wind S 5-10 ⇒ WSW 10-15; BSS 2-3, prn showers

Range of Water Temp., Surface 29.5°C - 31.0°C Below Mid-Depth 29.5°C - 31.0°C

Condition and Effectiveness of Screening Effectiveness varies from fair to poor depending on amount of clay in load. Port + SB MID boxes continue to open 12-24" during loading due to problems with hydraulics. SB MID inflow "floor" screening has 1.5' x 1' hole observed in load #487, though has likely been there longer.

Are there incidents involving endangered or protected species? YES (NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt and clay with small amounts of sand and crushed shell. Boxes continue to clog often with clay. Repairs have been completed to railing on port aft inflow box. Dragheads were not checked after load 481 as dragarms not brought on board

Biological by-catch includes: Sargassum, bryozoa, eels (2), Great Atlantic Cocker (Dinocardium robustum), polychaetes (unident.), Southern Quahog (Mercenaria campechiensis), Atlantic Cutlassfish (Trichiurus lepturus)

Debris includes: (4) lengths of rope (2-35'), (2) shrimp net pieces, (4) mesh bags, (2) wads of monofilament, duct tape, > 40' wire rope, swim mask, bungee cords, golf balls, wood, scrap metal, fish nets, gill net (5' piece), salt bags, plastic jug, pants, 20' wire rope, old rope hand-made fishing net,

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>3-4</u>	<u>0920 - Section 1</u>
<u>T. truncatus</u>	<u>5-6</u>	<u>1150 - buoy 3 - larger, several w/ chunks out of dorsal fin</u>
<u>T. truncatus</u>	<u>2-3</u>	<u>1310 - dump - feeding + tail slapping; one juvenile all across channel in group of 3-6,</u>
<u>T. truncatus</u>	<u>16-20</u>	<u>1325 - 2000 Sect 1 - feeding, porpoising + 'racing'</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 09 / AUG / 2001 Load Numbers 504 - 532

Area(s) Worked Sect. 1, 3, 4 Sta. -140<sup>m</sup> to -90<sup>m</sup>; -40<sup>m</sup> to 0<sup>m</sup>; 0<sup>m</sup> to 60<sup>m</sup> 28°55' N 95°16' W

Weather Conditions (incl. sea conditions) M. Clear → cloudy; Wind SW 10-15 → 10-12; BSS 2 → 2

Range of Water Temp., Surface 29.5 - 31°C Below Mid-Depth 29.5 - 31°C

Condition and Effectiveness of Screening Effectiveness varies from fair to poor depending on material being dredged. STB & Port mid continue to open 12-24" during loading. 1.5' x 1' hole in floor of STB mid inflow further compromises screening effectiveness.

Are there incidents involving endangered or protected species? YES (NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt and clay with some sand and crushed shell. Boxes continue to clog often with clay and are opened after notifying observer.

Biological by-catch includes: unidentified eels, sargassum, bryozoa, stone crabs (*Menippe mercenaria*),

Debris includes: (12) mesh bags, (8) shrimp nets, (12) monofilament, (17) rope, wire rope, plastic bags, extensions cords, electrical wire, tire, 5 gallon buckets, plastic debris, wood, rock, cable, salt bags, long fishing line w/ monofilament & leader (300 ft. flat with knots every yard), bag of Chinese saltines, cloth, 40' line (3" diameter), PVC pipe.

2 frigate birds (*Frigata magnificens*) were sighted. No sea turtles were observed today.

### Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>4-8</u>	<u>0710 - bay 3 - all am</u>
<u><i>T. truncatus</i></u>	<u>10-15</u>	<u>1155 - dump - feeding</u>
<u><i>T. truncatus</i></u>	<u>8-12</u>	<u>1210 - jetties - feeding + acrobatics</u>
<u><i>T. truncatus</i></u>	<u>10-15</u>	<u>Sections 1+6; 1300 - 2000; feeding + playing</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 10 / AUG / 2001 Load Numbers 533 - 533

Area(s) Worked Secs. 1, 3, 4, 6 Sta. -140<sup>to</sup> -90<sup>to</sup>; -10<sup>to</sup> +60<sup>to</sup>; -190<sup>to</sup> -140<sup>to</sup> 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) P-Cloudy S 10-15 → 5-10; BSS 2-3; 2-3 Swell

Range of Water Temp., Surface 30°C - 31.5°C Below Mid-Depth 30°C - 31.5°C

Condition and Effectiveness of Screening Effectiveness continues to vary from fair to poor depending on material being dredged. Port and STB Mid inflow doors continue to open during loading due to problems with hydraulics. There is a 1.5' x 1' hole in screening of STB mid inflow.

Are there incidents involving endangered or protected species? YES (NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material in sections 3 and 4 is thick silt and clay with some sand and crushed shell. Material in section 1 is largely clay, with some silt, leading to clogging of inflow boxes during loading. At times (see loads 517 and 533), "clogging" appears to be attributable to high water level in the hopper as opposed to actual clogging with clay and debris. Observer not always notified when inflow boxes are opened.

Biological by-catch includes: (3) unid'd eels, Sargassum, bryozoa, moon snail (a.k.a. dark eye), Polinices duplicatus.

Dragheads were not inspected after load #549 as they were not brought on board.

Debris includes: 100' + rubber hose, plastic milk jug, rug, lead fishing weights, salt bags, garbage bags, PVC pipe, car tire, 20' plastic coated wire rope, several large rocks, sod, (28) wads of monofilament, (12) lengths of rope, (17) mesh bags, ziplocks, beach balls (2), (5) stirrup rex pieces, 1 pr. of pants, crab trap

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>siops truncatus</u>	<u>5-6</u>	<u>0915-1200 / Buoy 5</u>
<u>truncatus</u>	<u>16-20</u>	<u>1215-2000 - feeding between jetties &amp; buoy 5</u>
<u>igata magnificens</u>	<u>2-4</u>	<u>1200-1600 - over jetties</u>

Observer(s) on duty Kirsten Dohlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 11 / AUG / 2001 Load Numbers 554 - 575  
 Station(s) Worked Secs 1, 3, 4, 6 Sta - 140<sup>00</sup> - 90<sup>00</sup>; -10<sup>00</sup> + 60<sup>00</sup>; -190<sup>00</sup> to -140<sup>00</sup> 28°55'N 95°16'W  
 Weather Conditions (incl. sea conditions) P. Cloudy → clear; SW 5-15; BSS 3 → 2 2-3' swell / chop  
 Range of Water Temp., Surface 29.5°C - 31.5°C Below Mid-Depth 29.5°C - 31.5°C  
 Condition and Effectiveness of Screening Effectiveness varies from fair to poor depending on material being dug.  
Gr and Str mid inflow boxes continue to open 6-24" during loading due to hydraulic problems. Approx.  
5' x 1' hole remains in str mid inflow floor screening.

Are there incidents involving endangered or protected species?

YES

(NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt, clay, sand and crushed shell. Boxes continue to clog during loading and  
are opened and cleaned after notifying observer. Str mid box chained shut after load #568 as  
hydraulic ram weld has broken loose.

Biological by-catch includes: Sargassum, bryozoa, lightning whelk egg cases (*Buccina cardium*),  
Giant Atlantic Cockle (*Dinocardium robustum*)

Debris includes: (12) mesh bags, (10) shrimp nets, (5) lengths of rope, (3) pieces of PVC pipe,  
(17) wads of monofilament, (12) lead weights, wood, fabric, shackle, plate, 25' chain, rebar steel,  
plastic strap, shoe lace, plastic juice containers

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Turbo</i> <i>turcatus</i></u>	<u>4</u>	<u>0945 - near jetties - all am</u>
<u><i>I. truncatus</i></u>	<u>3-4</u>	<u>0912 - near buoy 5 - all am</u>
<u><i>I. truncatus</i></u>	<u>6-12</u>	<u>1200 - feeding inside jetties all pm</u>
<u><i>T. truncatus</i></u>	<u>6-12</u>	<u>1400 - 2000 outside jetties includes mother/calf pair</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## WEEKLY SUMMARY

Dates 05 / AUG / 2001 - 11 / AUG / 2001 Load Numbers 392 - 575 p. 1 of 2

Range of Water Temp., Surface 28.5 - 31.5 °C Below Mid-Depth 28.5 - 31.5 °C

Areas Worked (lat/longs, stations) Secs. 1, 2, 3, 4, 6 Sta. -190<sup>too</sup> to -40<sup>too</sup>, -10<sup>too</sup> to +60<sup>too</sup>, 28° 55' N 95° 16' W

Are there incidents involving endangered or protected species? YES (NO)

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

Two turtles were sighted from the bridge on 07 August. A juvenile *Chelonia mydas mydas* (Green) surfaced outside the dumpsite, headed West. An adult-size *Lepidochelys Kempii* (Kemp's Ridley) was observed by K.D. and mate Joel Lynch near buoy #5. Neither turtle appeared to have any interaction with the dredge.

Repairs were completed to the 1'x3' hole in port mid inflow screening during load #454 on 07 August (first noticed and reported to captain and project manager 20 July, after load #6).

Repairs were completed to port aft inflow railings during loads #484-486 on 08 August. A 1.5' x 1' hole was noted in the Stb mid inflow screening after load #487, 08 August. Port and Stb mid inflow doors continue to open 6-24" during loading due to problems with hydraulics, repairs will be made when parts arrive (on order since dry dock) STB Mid chained #568.

Dredged material in sections 3+4 is clay, silt, sand and crushed shell. Aside from problems with mid inflow door hydraulics, screening is generally good in these sections. Material in sections 1, 2+6 is largely clay and silt. Boxes clog often in these areas and are opened and cleared often. Problems with clay blockage resulted in poor to non-existent screening in 66 loads this week. Dragheads were not inspected after loads

## Bridge Watch Summary

Date	Various Species and Respective Number	Comments
<u>Turtles</u>		
<u>07 / AUG</u>	<u><i>C. mydas mydas</i> (1 juvenile)</u>	<u>surfaced outside dump, headed West.</u>
<u>07 / AUG</u>	<u><i>L. Kempii</i> (1 adult-size)</u>	<u>buoy #5; "waved" right front flipper several times, facing WSW</u>
<u>/ OTHER</u>		<u>porpoising, tail-slapping, bow-riding +</u>
<u>05 / AUG</u>	<u><i>Tursiops truncatus</i> (12-23)</u>	<u>feeding throughout area.</u>
<u>06 / AUG</u>	<u><i>T. truncatus</i> (32-47)</u>	
<u>07 / AUG</u>	<u><i>T. truncatus</i> (15-25)</u>	
<u>08 / AUG</u>	<u><i>T. truncatus</i> (26-33)</u>	

Observers on duty Kirsten Dohlen + Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## WEEKLY SUMMARY

Dates 05 / AUG / 2001 - 11 / AUG / 2001 Load Numbers p. 2 of 2

Range of Water Temp., Surface \_\_\_\_\_ Below Mid-Depth \_\_\_\_\_

Areas Worked (lat/longs, stations) \_\_\_\_\_

Are there incidents involving endangered or protected species? YES NO

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

407, 439, 449, 454, 469, 481 as dragarms were not brought on board

Biological bycatch includes: bryozoa, sargassum, whale egg cases (Brycon contrarium), Gulf Menhaden (Brevoortia patronus), Sea Whip (Leptogorgia virgulata), Disc clams (Posidonia discus), colonial hydroids (un id.), eels (un id.), polychaetes + tube worms (un id.), Great Atlantic Cackle (Dinocardium robustum), Southern Quahog (Mercenaria campechanus), Atlantic Cutlassfish (Trichiurus lepturus), Stone Crab (Menippe mercenaria), Shark Eye (Polinices duplicatus)

Debris includes: (100) shrimp net fragments, (2) whole shrimp nets, (94) short (<12') lengths of rope, (97) mesh bags, (129) wads of monofilament, (6) pieces of wire rope 10-40', countless plastic bags, PVC pipe, wood, cloth, shackles, random plastic, lead fishing weights, 25' chain, plastic straps, Strap metal, shoe lace, plastic drink containers, engine parts, aluminum cans, golf balls, baseball cap, (4) tires, grill net pieces, sail fragments, shirts, 20' steel bar, anchor chain + shaft, electrical cable, 40' mooring line, 5 gallon buckets, Tanka truck, 20' rubber hose, co-axial cable, salt bags, fish hooks, swim mask + fins, duck tape, bungee cords, pants (2), extension cord, 20' rope line 44' monofilament + hooks every 3', rug, 100' rubber hose, (2) beach chairs

## Bridge Watch Summary

Date	Various Species and Respective Number	Comments
09 / AUG	<u>T. truncatus (32-50); Frigata magnificus (29)</u>	
10 / AUG	<u>T. truncatus (21-26); F. magnificus (29)</u>	
11 / AUG	<u>T. truncatus (19-32); F. magnificus (29)</u>	
/		
/		
/		
/		
/		

Observers on duty Kirsten Dahlen + Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 12 / AUG / 2001 Load Numbers 576-597 (Page 1 of 2)

Area(s) Worked SECT. 4/3 ; 1/6 STA. -10+00 to +50+00 ; -90+00 to -190+00 28°55' N 95°16' W

Weather Conditions (incl. sea conditions) Beauf. #2 & 3 ; Winds S to 10kts ; Clear Skies (Partly Cloudy late p.m.)

Range of Water Temp., Surface 30-31°C Below Mid-Depth 30-31°C

Condition and Effectiveness of Screening A combination of factors continue to eliminate any chance of effective screening for turtle takes. High clay content in certain areas seems to be the single largest contributor (cont'd below.)

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

(cont'd) to the problem. However, the frequency at which inflow boxes are opened mid-load by the dragtender continues to be related directly to which shift (0530-1130 vs. 1130-~~1730~~) is dredging. Observers continue to note all times when inflow boxes are opened mid-load w/o being able to thoroughly check for turtle takes. The hole (~1ft x 2ft) in the stbd mid inflow box is to be repaired on 13 AUG. The hydraulic ram on the stbd mid box was removed today. This box has been unused since 11 AUG since the door swings freely and all stbd inflow now is directed to the aft box. The port mid box continues to clog frequently even though the screen door opens up to 24" during loading due to its broken hydraulic ram. It is anticipated that clogging in this box will continue to be a problem even after (cont'd)

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>19-29</u>	<u>Dolphins continue to frequent both the disposal area and channel from 1<sup>st</sup> light (~0640) to last light (~2020). Behaviors include feeding, tail-slapping and bow-riding. No direct interactions observed w/ dredge</u>
<u>(groups of 2 to 18 - # could be higher - difficult to know if individuals get counted twice throughout the day.)</u>		
Observer(s) on duty <u>Kirsten Dahlen and Brian Fedorko</u>		



# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 12 / AUG / 2001 Load Numbers Page 2 of 2

Area(s) Worked SECT. STA. 28°55 N 95°16 W

Weather Conditions (incl. sea conditions) \_\_\_\_\_

Range of Water Temp., Surface \_\_\_\_\_ Below Mid-Depth \_\_\_\_\_

Condition and Effectiveness of Screening \_\_\_\_\_

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

(cont'd) repairs are made to the hydraulic ram. The only inflow box that consistently produces effective screening is the Port Aft box, which rarely clogs enough or makes a big enough mess on the nearby catwalk to necessitate opening mid-load by the dragtender. This situation is likely due to the fact that relatively little material reaches this box when the Port Mid box is not clogged. Both dragheads continue to be dragged near the surface (just below) to "wash" them before bringing them onboard after digging each load. This activity may further reduce observers' ability to detect a turtle take.

\* No turtles or whales were sighted today.

\* Biological and abiotic debris continues to be the same assortment as last 3 week

### Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 13 / AUG / 2001 Load Numbers 598 - 619

Area(s) Worked Sect. 3#4 Sta. -10+00 to +50+00 [2 loads in 6] <sup>Sect. 7</sup> 8°55' N 95°16' W

Weather Conditions (incl. sea conditions) Beaufort # a.m.: 3; p.m.: 2 / Mostly Cloudy all Day; Winds S a.m. - 10 p.m. - 5.

Range of Water Temp., Surface 29.5° - 30.0°C Below Mid-Depth 29.5 - 30.0°C

Condition and Effectiveness of Screening - Unchanged since 12 AUG 01 w/ the exception of the hydraulic ram on the Port Mid inflow box. At 2325 HRS today the ram snapped off @ the mount bolted to the top of the box. Screen door is now inoperable.

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- \* Beginning w/ load 620 on 14 AUG, inflow through Port Mid box will not be screened since the door swings open freely during loading. Flow cannot be diverted to Aft box due to a broken chain (broken since 19 July 01) on the hatch that stops flow from the main pipe to this (mid) box. This situation will be updated in tomorrow's DAILY REPORT.
- \* Dredged material continues to be a mix of mud, clay, sand, & shell debris.
- \* Biological debris included: (1) Unidentified Crab (in hopper), (1) Mullet (on spill deck under draghead), (1) Eel (in hopper), sargassum, bryozoa, and shell and wood debris.
- \* Abiotic debris included: (8) Shrimp Net remnants, (1) Steel Trailer Frame w/ rubber tire, carpet, (2) Mesh produce bags, (1) Plastic Milk Crate, (2) Plastic Salt Bags, (1) cart tire, electrical wire, (1) PVC Pipe, 15 ft wire rope; several lg rocks, lots of fishing gear waste.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>10-18</u>	<u>0640-2020 - In and around channel throughout the day. Near jetties and further offshore (Bbox 3).</u>

No Turtle Sightings Today.

Observer(s) on duty Kirsten Dohlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 14/ AUG / 2001 Load Numbers 620 - 641

Area(s) Worked Sec. 3 & 4 STA -10+00 to -+50+00 / +2 loads Sec. 6 28°55' N 95°16' W

Weather Conditions (incl. sea conditions) Beauf. #2 all day; a cloudy w/ rain @ 1040 hrs. / p.m. - Clearing w/ Lt. Winds

Range of Water Temp., Surface 29.5 - 31.0 °C Below Mid-Depth 29.5 - 31 °C

Condition and Effectiveness of Screening Hydraulic Rams for both mid boxes did not arrive today. Loads 620-626 were completed w/ no screening of the Port Mid box as the door swings open freely during loading and flow

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

was not diverted to the aft box due to the broken chain on the hatch door that stops flow to the mid box from the main pipe. It @ 30 hrs, the crew removed the hydraulic ram from the port mid box and repaired the broken chain to stop flow to this box. Hydraulic Rams are expected to arrive sometime 15 AUG 01. Some material continues to flow through the Port Mid box. Loads 627-641 were completed using the 2 Aft boxes only, causing a higher frequency of clogging for some loads, creating a need to open the boxes mid-load w/o being thoroughly checked for turtle takes. Material contains larger amounts of clay along channel edges. No Turtles were sighted today. // Other screening conditions same as noted 12-13 AUG. Biological & Abiotic debris similar to previous days. (Specifics on back of original copy only.)

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>12-22</u>	<u>Late a.m. 8:1-2020 hrs (last light) - Observed both inside &amp; outside the jetties in 2 groups of 6-12 each. Feeding and "playing".</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 15 / AUG / 2001 Load Numbers 642 - 663  
 Area(s) Worked Sec. 3 & 4 Sta. 70+00 to ~+50+00 / (3 Loads) Sec. 6: ~190 to ~40 28°55' N 95°16' W  
 Weather Conditions (incl. sea conditions) Beaut. #1-2 a.m.; 2-3 p.m.; Mostly to Partly Cloudy All Day; Winds a.m. - 10-15  
 Range of Water Temp., Surface 29.5-31.0°C Below Mid-Depth 29.5-31.0°C  
 Condition and Effectiveness of Screening Port mid inflow box in use again as of load 658. Hydraulic Ram replaced ca. 1700 HRS. Std mid box still out of service. High clay content in material continues to compromise screening.

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- \* No turtles were sighted today.
- \* Material consists of a mix of mud, silt, sand, clay, and shell debris. As section 4 is getting deeper, the amount of large clay chunks appears to be increasing - contributing to clogging of inflow screening.
- \* Biological debris today included: oysters; shrimp (1); *Dinocardium robustum* (1) - Giant Atlantic Copepod; bryozoa, sargassum, (1) Gulf Menhaden (*Brevoortia patronus*); (2) Norelhead Catfish (*Arius felis*); & shell debris & sea urchins.
- \* Abiotic debris included: Misc. Rope; Metal Waste (3); Wire Rope (1) 10ft x 1/2 in.; (1) 20ft x 1 in.; (1) 6ft x 1/2 in.; (1) 20ft x 1 in.; (1) 30'; (1) 10ft; (1) Tire, (1) 10ft piece of wood; (3) Shrimp Net remnants; numerous wads of monofilament line w/ hooks & lead wts; (1) Trailer Hitch; (6) Misc. Plastic; (6) Rocks (1' x 1' x 1' each - avg.) and cloth.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Trisops truncatus</i></u>	<u>9-12</u>	<u>0725 - Buoy 3 - just outside channel; Tight group.</u>
<u><i>Trisops truncatus</i></u>	<u>12-20</u>	<u>Throughout Day - inside &amp; outside jetty - feeding</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 16 / AUG / 2001 Load Numbers 664 - 684

Area(s) Worked SECT. 4/3 STA. +50+00 to +30+00 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) Reef: #3-4 ; Winds: S to 20 kts; a.m. <sup>Skies:</sup> P. Cloudy p.m.: M. Clear.

Range of Water Temp., Surface 29.5°C - 31.0°C Below Mid-Depth 29.5°C - 31.0°C

Condition and Effectiveness of Screening Screening condition good - hydraulic ram installed on Stbd. Mid Inflow box beginning w/ load #679. All inflow boxes now in use, but high clay content continues to

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

compromise screening effectiveness. Both mid boxes generally need to be left open due to clogging. Aft boxes are rarely opened now after load #678.

\* Biological debris: Sargassum, Bryozoa, Snail Egg Case (Shark Eye - *Polinices duplicatus*), (1) Gulf Menhaden (*Brevoortia patronus*), (1) Atlantic Cutlassfish (*Trichiurus lepturus*), Crushed shell debris.

\* Abiotic debris: Misc. Plastic (3); Plastic Bags (2), Sail Scrap, (1) T-shirt; (1) 4 ft Turnbuckle; Plastic Salt Bag (1); Metal Waste (3) (1) Wood Board - 6'x8"x1"; (1) Sweat pants, (2) Shrimp Nets; (2) Mesh Bags Wads of Monofilament w/ lead wts & hooks; 10 ft wire; Various lengths of rope (to 10 ft); (1) Metal Drum, (1) Plastic Bag, (1) underwear, wire rope. (2) Rocks - ca. 1'x1'x1' each., (1) Tow Strap, + 1 Shrimp Net w/ TED.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>10-20</u>	<u>0700 - Grp. of 5-7 @ end of jetties. Grp. of 10-20 inside &amp; outside jetties all afternoon til 2010 hrs. Another grp. of 10-12 load 673. Best guess for minimum # individual dolphins today: 10-20.</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 17 / AUG / 2001 Load Numbers 685 - 705

Area(s) Worked Sect. 3/4/5/6 Sta. -40+00 to +72+00; -190+00 to -140+00 28°55' N 95°16' W

Weather Conditions (incl. sea conditions) Early a.m. winds S to 15 kts. Mostly clear to P. Cloudy P.M. Winds to 10 kt  
Beaufort # 2-3.

Range of Water Temp., Surface 29.5-31.5 °C Below Mid-Depth 29.5-31.5 °C

Condition and Effectiveness of Screening Condition is good. Both mid inflow boxes usually open w/ no screening due to clay/clogging issues. Both aft boxes generally provide fairly effective screening.

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- \* No turtle takes or sightings today
- \* Load #696 is the first load from Section 5 - material is a thick muddy silt w/ some sand. Clay balls are smaller so far, yet inflow box clogging continues to occur.
- \* Biological by-catch today included: (2) Hardhead Catfish (Arius felis); (1) Unidentified Fish (in Hopper); (2) Tree Roots.
- \* Abiotic debris included: (16) Rocks (generally ca. 1 ft<sup>3</sup>); (5) Metal debris; (1) Golf Ball; (4) Shrimp Net Scrap; (5) Mesh Produce Bags; (13) Wood debris; (6) Misc. Plastic Waste; (2) PVC Pipe; (1) Beach Chair; 10' wire rope; 12' x 5" rope; 20' chain; 15' wire rope; (1) Cloth Material; (5+) Wads of monofilament line w/ hooks & lead wts.; (1) Fiberglass Waste

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>15-25</u>	<u>Dolphins are observed both inside &amp; outside the jetty's, in and around the channel throughout the day.</u>

Observer(s) on duty Kirsten Dohlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 18 / AUG / 2001 Load Numbers 706-723

Area(s) Worked Sec. 1/6, 3/4, 4/5 STA -110+00 to -190+00; <sup>+46+00 to +72+00</sup> -40+00 to +10+00 28°55' N 95°16' W

Weather Conditions (incl. sea conditions) Beauf. #2-3; Winds: S 8-15 kts; Skies: Pcloudy → M. CLEAR

Range of Water Temp., Surface 29-31.5°C Below Mid-Depth 29-31.5°C

Condition and Effectiveness of Screening Condition is good. Effectiveness continues to vary from 0-100% screening depending upon the nature of the dredged material.

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- \* Material in Sec. 5 is generally a thick mud/silt mix while other sections are characterized by higher amounts of clay and silt.
- \* No turtles were sighted today.
- \* Biological "debris" and by-catch today included sargassum, bryozoa, and (16) Eels (species unidentified - in hopper).
- \* Abiotic debris today included: 50 ft of 1" chain; 10 ft of 2" line; (4) mesh bags; 6 ft of 2" line; (1) Steel Bar; 3 ft Chain; (4) Shrimp Net Scraps; 20 ft Chain; Sail Scrap; Rug; (1) Fish Net - Wide Mesh; Wads of Monofilament Line; Misc. Plastic Trash; String; Lead Weights (x4); 10 ft of rope; Misc. Rope scrap; (9) Wood Debris - old piling, etc.; (5) Rocks - ca. 1' x 1' x 1'

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>14-21</u>	<u>Dolphins are seen frequently throughout the day and throughout the work area in groups ranging in size from 1-15. No obvious dredge/dolphin interactions today.</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## WEEKLY SUMMARY

Dates 12 / AUG / 2001 - 18 / AUG / 2001 Load Numbers 576 - 723  
 Range of Water Temp., Surface 29-31.5°C Below Mid-Depth 29-31.5°C  
 Areas Worked (lat/longs, stations) Sec. 1, 3, 4, 5, 6 / Stations: -90+00 to -190+00; -40+00 to +72+00

Are there incidents involving endangered or protected species?

YES

NO

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

\* No turtle takes and no turtle sightings this week.

\* Screening condition improved to "generally good" this week as the hydraulic rams for both mid inflow boxes were installed. Although these mid boxes are usually opened due to clogging mid-load, screening effectiveness has increased this week as the Aft inflow boxes remain closed more regularly.

\* Details of by-catch and abiotic debris have been listed on each DAILY REPORT this week.

\* EAGLE 1 began dredging in Section 5 this week.

## Bridge Watch Summary

Date	Various Species and Respective Number	Comments
<u>12 / AUG</u>	<u><i>Tursiops truncatus</i>: 19-29</u>	<u>Dolphins are seen each day in and around the channel and disposal area. Numbers reported are approximate, w/ efforts made not to count the same individuals twice</u>
<u>13 / AUG</u>	<u>" " 10-18</u>	
<u>14 / AUG</u>	<u>" " 12-22</u>	
<u>15 / AUG</u>	<u>" " 21-32</u>	
<u>16 / AUG</u>	<u>" " 10-20</u>	
<u>17 / AUG</u>	<u>" " 15-25</u>	
<u>18 / AUG</u>	<u>" " 14-21</u>	

Observers on duty Kirsten Dahlen + Brian Federko



# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 19 / AUG / 2001 Load Numbers 724 - 741

Area(s) Worked Sec 1, 3, 4, 5, 6 STA -130' to -140'; -40' to -20'; -35' to -75' 28°55' N 95°16' W

Weather Conditions (incl. sea conditions) (11/01) Cloudy BSS 2 ↑ 4 ↓ 2 wind S 8-18

Range of Water Temp., Surface 28-31°C Below Mid-Depth 28-31°C

Condition and Effectiveness of Screening All boxes functional though 1x1' hole still present in flow of SB mid width screening. Effectiveness continues to vary from load to load due to chugging with clay, especially in sections 1 and 6.

Are there incidents involving endangered or protected species? YES (NO,

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material in sections 1 & 6 is largely clay with some silt, material in sections 3, 4 and 5 is clay/silt with some sand and crushed shell. Boxes continue to clog during loading, but is generally improved with approx 50% screening on many loads.

Biological by-catch includes: (1) eels, Scyphosoma, bryozoa, Atlantic Cutlassfish (Trichiurus lepturus)

One sub-adult or adult Loggerhead (Caretta caretta) was observed outside the dig area.

Debris includes: plastic waste, shrimp nets (1'), wood debris, golf balls, mesh bags (18), PVC pipe, tire, wire rope (20'), metal waste, rock, marlin fork, wire rope (over 40')

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>4</u>	<u>0731 - mouth of jetty</u>
<u>T. truncatus</u>	<u>3-4</u>	<u>0821 - buoy 5</u>
<u>Caretta caretta</u>	<u>1 sub-adult or adult</u>	<u>1259 - in dump area, off SB bow, headed NW</u>
<u>T. truncatus</u>	<u>10-20</u>	<u>1200 - 2000 feeding from buoys 3-5 to 11 station</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 20 / AUG / 2001 Load Numbers 742 - 762

Area(s) Worked Sec. 4, 5, 6 Sta. +46<sup>th</sup> to +72<sup>th</sup>; -190<sup>th</sup> to -140<sup>th</sup> 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) M. Clear to H. Cloudy S 4-12 BSS 2-3

Range of Water Temp., Surface 30°C - 31°C Below Mid-Depth 30°C - 31°C

Condition and Effectiveness of Screening Screening is generally improved, with approximately 50% screening on most loads. S/S Mid Inflow screening still has approx. 1x1' hole. Boxes continue chng periodically with clay & are opened after informing turtle observer.

Are there incidents involving endangered or protected species? YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt and clay with some sand & crushed shell in sections 4 & 5.  
Boxes often clog with clay, especially in sections 6 & 1.

Biological by-catch includes: Sargassum, bryozoa, S. Oculog (Meneasida campechiensis), eels (un id'd)

Debris includes: shrimp nets, mesh bags, plastic debris, cable, wire rope, rope, rocks, wood, fish lures, fishing weights, nonbiodegradable cloth, sweatshirt, metal pipe, water hose, fiberglass

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>6</u>	<u>0715 - 0720 - Sta +46<sup>th</sup> and 10W Intersection</u>
<u>Stenotaphrum megaris</u>	<u>500-1000</u>	<u>0830 - inside jetties</u>
<u>T. truncatus</u>	<u>15-20</u>	<u>1200-1215 / section 6 / very active across channel</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 21 / AUG / 2001

Load Numbers 763 - 782

Area(s) Worked Secr. 4, 5, 6 Sta. -190<sup>+</sup> to -140<sup>+</sup> ; +40<sup>+</sup> to +72<sup>+</sup> 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) M. Clear → P. Cloudy; SS 10 → SE 5-10; BSS 2-3

Range of Water Temp., Surface 30°C - 31.5°C Below Mid-Depth 30°C - 31.5°C

Condition and Effectiveness of Screening Approx. 1' x 1' hole remains in STB mid inflow screening,  
otherwise screening remains as before, with 50% screening in sections 4 + 5 and  
essentially no screening in section 6 due to clay content.

Are there incidents involving endangered or protected species?

YES

NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt + clay with some sand + shell. Clay content  
increases in all sections as depth increases, resulting in reduced screening  
effectiveness as boxes clog with clay and debris.

Biological by-catch includes: Sargassum, bryozoa, eels (unidentified), lightning whelk  
egg cases (Busyon contrarium), Sabal palmetto, Stomatopus nebulosus,

Debris includes: scrap metal, wood, rope, monofilament, plastic bags, mesh produce bags,  
5 gallon bucket, rocks, shrimp net fragments, fishing weights + lures, plastic debris,  
fiberglass, salt bags, chain, wire rope, anchor, cloth,

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>15-25</u>	<u>dolphin feeding, bowriding + socializing throughout the</u> <u>Freeport site.</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

ate 22 / AUG / 2001 Load Numbers 783 - 803

sea(s) Worked Sec. 4, 5, 6 Sta -190<sup>ft</sup> to -140<sup>ft</sup>, +40<sup>ft</sup> to +72<sup>ft</sup> 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) P. Cloudy 55-10 855 2.3

Range of Water Temp., Surface 30°C - 31.5°C Below Mid-Depth 30°C - 31.5°C

Condition and Effectiveness of Screening 1'x1' hole remains in SOB mid inflow screening. Effectiveness remains at about 50% in sections 4 & 5 and 0% in section 6 due to heavy clogging 1th day.

Are there incidents involving endangered or protected species? YES (NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt and clay with some sand & shell. Clay increases as depth increases in all sections, resulting in clogging of inflow boxes. Boxes are opened & cleaned after notifying observer. One sub-adult *Caretta caretta* was observed from the ridge at the mouth of the jetties surrounded by *Stomatolophus melanogaster* (bridge summary).

Biological by-catch includes: Bryozoa, Sargassum, eels (unidentified), *S. melanogaster* (there are many on the well decks today), Sea whip (*Leptogorgia virgulata*), *Buxtonia ontariensis*

Debris includes: shrimp nets, tires, rock, fabric, plastic waste, wood, copper tubing, rope, monofilament, steel, fiberglass, box ball cap, plastic strapping, sail canvas, creosote soaked timber,

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>T. truncatus</i></u>	<u>15-25</u>	<u>Feeding &amp; socializing throughout the area, all day.</u>
<u><i>Tricentrus magnificus</i></u>	<u>1 ♀</u>	<u>area - over channel</u>
<u><i>Stomatolophus melanogaster</i></u>	<u>several thousand (same in channel from jetties to shore)</u>	
<u><i>Caretta caretta</i></u>	<u>1 subadult</u>	<u>1708 - in midst of <i>S. melanogaster</i> at mouth of jetties</u>

Observer(s) on duty Kirsten Dohlen and Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## DAILY REPORT

Date 23 / AUG / 2001 Load Numbers 804 - 820

Area(s) Worked SECT. 1, 4, 5, 6 STA. 190<sup>to</sup> - 125<sup>to</sup>; 40<sup>to</sup> to 72<sup>to</sup> 28°55' N 95°16' W

Weather Conditions (incl. sea conditions) M. Clear; S 5-10; BSS 2-3

Range of Water Temp., Surface 30-31°C Below Mid-Depth 30-31°C

Condition and Effectiveness of Screening 1'x1' hole remains in str mid inflow screening. Screening effectiveness in sections 4+5 is approx. 40%; in sections 1+6, there is no inflow screening due to heavy clay loading.

Are there incidents involving endangered or protected species? YES (NO)

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is silt, clay, sand + shell; clay content increases in all sections as depth increases. Inflow boxes are opened + cleaned during loading without adequate opportunity to check for biological takes.

Biological by-catch includes: Sargassum, bryozoan, etc's (we id'd in hopper), S. macleagris (often on spill decks + in hopper after load), Leptogorgia virgulata, Crassostrea virginica, Sabal, palmato,

Debris includes: shrimp nets, plastic milk crates, 5 gallon buckets, mesh bags, monofilament, lead weights, rope, racks, wood, metal debris, rubber hose, rubber waste, creosote, 20' cable, aluminum cans, hard hat, car tires

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>I. truncatus</u>	<u>15-25</u>	<u>all day / all area / feeding, socializing, bow-riding</u>
<u>Stenodaphnus macleagris</u>	<u>1000's</u>	<u>throughout the day from jetties to dump</u>

Observer(s) on duty Kirsten Dahlen and Brian Fedorko



## ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

### DAILY REPORT

Date 25 / AUG / 2001 Load Numbers 830-846

Area(s) Worked 1, 4, 5, 6; Sta -190<sup>too</sup> to -135<sup>too</sup> and +40<sup>too</sup> to +72<sup>too</sup>; 28°55'N 95°16'W

Weather Conditions (incl. sea conditions) Clear → P. Cloudy; winds S 1-210; ESS 2; afternoon showers

Range of Water Temp., Surface 30°C - 31°C Below Mid-Depth 30°C - 31°C

Condition and Effectiveness of Screening 1'x1' hole remains in stb mid screening inflow chute. Screening effectiveness is 0% in sections 1+6 and approx 20% in sections 4+5.

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

Dredged material is mostly clay with silt, sand & crushed shell. Inflow boxes were often opened and flushed or left open during digging due to clogging with clay & debris. Stb draghead not checked after leads #742-44 as draghead not brought on board.

Biological by-catch: sargassum, bryozoa, unidentified cels

Debris includes: shrimp nets, rocks, plastic debris, monofilament, tires, mesh produce bags, steel train rail, wood, scrap metal, lead weights, wire rope, chain, ponton boat engine, metal drum

### Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>15-25</u>	<u>Feeding, socializing &amp; bow riding, all day, all areas</u>
<u>Frigata magnificus</u>	<u>1+</u>	<u>0750 - over channel</u>

Observer(s) on duty Kirsten Dahlen & Brian Fedorko

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: Eagle One

Project: Freeport Entrance Channel, TX

## WEEKLY SUMMARY

Dates 19 / AUG / 2001 - 25 / AUG / 2001

Load Numbers 741 - 846

Range of Water Temp., Surface 28.0 - 31.5 °C

Below Mid-Depth 28.0 - 31.5 °C

Areas Worked (lat/longs, stations) Sta. 1, 2, 3, 4, 5, 6 ; Sta. 790 to 125 to -60 to 20 to +35 to +72 to  
28° 55' N 95° 16' W

Are there incidents involving endangered or protected species?

YES

(NO)

Comments (turtle takes, whale sightings, effectiveness of screening, by-catch, material, other info):

Two loggerhead sea turtles (*Caretta caretta*) were observed this week: a sub-adult or adult sized *C. caretta* surfaced in the dump on 19 Aug; a sub-adult sized *C. caretta* was observed in the midst of a large group/concentration of *Stomatoporus meleagris* (Cannonball jellyfish) at the mouth of the jetties on 22 Aug. Neither sea turtle had any apparent interaction with the dredge.

Dredged material is mostly clay and silt with some sand and crushed shell in sections 3, 4 & 5. Inflow boxes continue to clog with clay. Mid inflow boxes are generally opened during all loads, reducing screening efficiency to 50% at best. There is 0% screening in sections 1 & 6, and generally 15-25% in other sections as percentage of clay increases. STB mid 1st hole remains.

Biological by-catch includes: *Sargassum*, *bryozoa*, eels (un id'd), *S. meleagris*, *Leptogorgia virgulata*, *Crassostrea virginica*, *Sabal palmetto*, *Busyon contrarium*, *Mercuraria campechiensis*, *Trichurus lepturus*

Debris includes: shrimp nets, rocks, plastic debris, invertebrates, tires, mesh bags, steel trawl, rail, wood, scrap metal, lead weights, wire rope, chains, parts, boat engines, metal drum, pvc pipe, rope, plastic milk jug, canvas sail, 5 gallon bucket, hand tires, copper tubing, & trash

## Bridge Watch Summary

Date	Various Species and Respective Number	Comments
19 / AUG	<i>Tursiops truncatus</i> (15-25); <i>C. caretta</i> (1)	2 loggerhead sightings detailed above. Bottle-nose dolphins generally throughout area, feeding, bow riding, socializing from turning basin to dump.
20 / AUG	<i>T. truncatus</i> (15-25); <i>S. meleagris</i> (500-1000)	
21 / AUG	<i>T. truncatus</i> (15-25)	
22 / AUG	<i>T. truncatus</i> (15-25); <i>C. caretta</i> (1); <i>S. meleagris</i> ;	
23 / AUG	<i>T. truncatus</i> (15-25); <i>S. meleagris</i>	
24 / AUG	no sightings	
25 / AUG	<i>T. truncatus</i> (15-25); <i>Frigata magnificens</i> (1)	

Observers on duty Kirsten Dahlen + Brian Fedorko



# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEPORT, TX

## DAILY REPORT

Date 26 / AUG / 2001 Load Numbers 847 - 862

Area(s) Worked Sec 1, 6, 3, 4, 5 Stations -190° to -130°, -40+00 to +72+00

Weather Conditions (incl. sea conditions) Winds to 12 kts from S. Breeze #2-3. P. Cloudy

Range of Water Temp., Surface 29.5-30.5°C Below Mid-Depth 29.5-30.5°C

Condition and Effectiveness of Screening Condition is good. Effectiveness is not good due to clay issues, depending upon the section dredged. Generally zero screening through mid inflow boxes.

Are there incidents involving endangered or protected species? YES ☒ NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- \* Shd diagram generally not brought on board most loads today due to mechanical concerns. Also not brought on board (both arms) load #852 due to "short dump run" - Checked by observer from well deck.
- \* Material is the same - mud, clay, some shell debris, + sand
- \* Biological by-catch today included bryozoa, sargassum, (1) Eel, and several cannonball jellyfish on well decks.
- \* Abiotic debris included rocks, wood debris, 50+ ft x 1.5" wire rope, rubber tire, 15 ft rubber hose, Mesh produce bag, shrimp net scraps, rope, (1) aluminum pipe, and wire rope scrap.

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u><i>Tursiops truncatus</i></u>	<u>8-12</u>	<u>All afternoon in and around channel</u>
<u>Cannonball Jellyfish</u>	<u>100's</u>	<u>In channel all afternoon</u>

Observer(s) on duty KIRSTEN DAHLEN / BRIAN FEDORKO

# ENDANGERED SPECIES OBSERVER PROGRAM

Dredge: EAGLE 1

Project: FREEPORT, TX

- FINAL -  
DAILY REPORT

Date 27 / AUG / 2001 Load Numbers 863 - 872

Area(s) Worked 1, 6, 3, 4, 5 ← Sections = Stations → -190+00 to -130+00 ; -20+00 to +72+00

Weather Conditions (incl. sea conditions) Beaufort #2 to 3. Rain/lightning/juvs @ 0600. Winds S changing to N.

Range of Water Temp., Surface 30°-31°C Below Mid-Depth 30°-31°C

Condition and Effectiveness of Screening Condition continues to be "generally good." Both mid inflow boxes continue to be open throughout all loads due to clogging. Aft boxes are often opened occasionally.

Are there incidents involving endangered or protected species? YES NO

Comments (details of turtle takes or whale sightings, dredged material, screening, biological by-catch, etc.):

- \* This is the final day of work in the FREEPORT CHANNEL.
- \* Material is unchanged, generally mud/silt w/ clay and some sand.
- \* No weekly summary will be submitted for 26-27 August.

\* Abiotic debris today included: Shrimp Net scraps, Golf Ball (1)  
Rocks, 4ft x 1in. Wire Rope, Fabric Scrap, Rope, Wood Debris,  
Mesh Produce Bag

\* Biological by-catch today included: Sargassum, Bryozoa, mid'd cel, Brevortia  
patronus

\* Stbd draghead not brought on deck after most loads today. - Mechanical Problems  
(Wench Bearings)

## Bridge Watch Summary

Species	# of Animals	Time / Location / Comments
<u>Tursiops truncatus</u>	<u>24-30</u>	<u>All day, beginning 0940 - throughout channel, inside &amp; outside jetties.</u>
<u>Cannonball Jellyfish</u>	<u>1000's</u>	<u>1045 → afternoon - In channel, in &amp; out of jetties.</u>

Observer(s) on duty BRIAN FEDORKO / KIRSTEN TÄHLEN